



## IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) NEWSLETTER 47

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### NEW MINERALS AND NOMENCLATURE MODIFICATIONS APPROVED IN 2018 AND 2019

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FRÉDÉRIC HATERT<sup>3</sup> (VICE-CHAIRMAN, CNMNC), MARCO PASERO<sup>4</sup> (VICE-CHAIRMAN, CNMNC) and  
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The information given here is provided by the IMA Commission on New Minerals, Nomenclature and Classification for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

**Mineral name, if the authors agree on its release prior to the full description appearing in press**

Chemical formula

Type locality

Full authorship of proposal

E-mail address of corresponding author

Relationship to other minerals

Crystal system, Space group; Structure determined, yes or no

Unit-cell parameters

Strongest lines in the X-ray powder diffraction pattern

Type specimen repository and specimen number

Citation details for the mineral prior to publication of full description

**Citation details concern the fact that this information will be published in the *European Journal of Mineralogy* on a routine basis, as well as being added month by month to the Commission's web site.**

**It is still a requirement for the authors to publish a full description of the new mineral.**

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

### NEW MINERAL PROPOSALS APPROVED IN DECEMBER 2018

#### IMA No. 2018-109

Avdeevite

(Na, Cs)(Be<sub>2</sub>Li)Al<sub>2</sub>(Si<sub>6</sub>O<sub>18</sub>)

Khat Chey (Kat Chay) mine, near the Khetchel vil-  
lage, Molo quarter, Momeik township, Kyaukme

district, Shan State, Myanmar (23°18'42"N,  
96°51'54"E)

Atali A. Agakhanov\*, Dmitry A. Stepanenko, Nata-  
lia V. Zubkova, Igor V. Pekov, Leonid A. Pautov,  
Anatoly V. Kasatkin, Vladimir Y. Karpenko, Vitaliya  
A. Agakhanova, Radek Škoda and Sergey N. Britvin

\*E-mail: [atali99@mail.ru](mailto:atali99@mail.ru)

Beryl group

Hexagonal: *P6/mmc*; structure determined

$a = 9.2287(4)$ ,  $c = 9.2610(3)$  Å  
7.96(82), 4.60(31), 3.99(20), 3.26(100), 3.02(37),  
2.866(84), 2.524(13), 1.742(19)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 5279/1

How to cite: Agakhanov, A.A., Stepanenko, D.A., Zubkova, N.V., Pekov, I.V., Pautov, L.A., Kasatkin, A.V., Karpenko, V.Y., Agakhanova, V.A., Škoda, R. and Britvin, S.N. (2019) Avdeevite, IMA 2018-109. CNMNC Newsletter No. 47, February 2019, page 197; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-110

Nickeltyrrellite

$\text{CuNi}_2\text{Se}_4$

El Dragón mine, 30 km SW of Potosí, Quijarro province, Bolivia ( $19^\circ 49' 23.90''\text{S}$ ,  $65^\circ 55' 00.60''\text{W}$ , 4160 m a.s.l.)

Hans-Jürgen Förster\*, Chi Ma, Günter Grundmann, Luca Bindi and Christopher J. Stanley

\*E-mail: [forhj@gfz-potsdam.de](mailto:forhj@gfz-potsdam.de)

Spinel supergroup

Cubic:  $Fd\bar{3}m$

$a = 9.99$  Å

X-ray powder diffraction pattern not available

Type material is deposited in the mineralogical collections of the Natural History Museum, London, catalogue number BM2018,19 (holotype), and the Mineralogical State Collection Munich – Museum Reich der Kristalle, inventory number MSM 73587 (cotype)

How to cite: Förster, H.-J., Ma, C., Grundmann, G., Bindi, L. and Stanley, C.J. (2019) Nickeltyrrellite, IMA 2018-110. CNMNC Newsletter No. 47, February 2019, page 198; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-114

Pseudomarkeyite

$\text{Ca}_8(\text{UO}_2)_4(\text{CO}_3)_{12} \cdot 21\text{H}_2\text{O}$

Markey mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA ( $37^\circ 32' 57''\text{N}$ ,  $110^\circ 18' 08''\text{W}$ )

Anthony R. Kampf\*, Travis A. Olds, Jakub Plášil, Peter C. Burns and Joe Marty

\*E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

Closely related to markeyite

Monoclinic:  $P2_1/m$ ; structure determined

$a = 17.531(3)$ ,  $b = 18.555(3)$ ,  $c = 9.130(3)$  Å,  
 $\beta = 103.95(3)^\circ$

8.73(86), 6.28(100), 5.70(72), 4.65(80), 4.293(55), 4.082(47), 3.973(25), 2.811(59)

Type material is deposited in the mineralogical collections of the Natural History Museum of Los

Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 67091  
How to cite: Kampf, A.R., Olds, T.A., Plášil, J., Burns, P.C. and Marty, J. (2019) Pseudomarkeyite, IMA 2018-114. CNMNC Newsletter No. 47, February 2019, page 198; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-115

Magnesiobermanite

$\text{MgMn}^{3+}(\text{PO}_4)_2(\text{OH})_2 \cdot 4\text{H}_2\text{O}$

White Rock No. 2 quarry, Bimbowrie Conservation Park, 24 km N of Olary, South Australia, Australia ( $32^\circ 4' 51''\text{S}$ ,  $140^\circ 19' 45''\text{E}$ )

Peter Elliott\*

\*E-mail: [peter.elliott@adelaide.edu.au](mailto:peter.elliott@adelaide.edu.au)

The Mg analogue of bermanite

Monoclinic:  $P2_1$ ; structure determined

$a = 5.421(1)$ ,  $b = 19.072(4)$ ,  $c = 5.389(1)$  Å,  
 $\beta = 110.21(3)^\circ$

9.533(100), 5.089(8), 4.878(3), 4.772(21), 3.634(3), 3.246(3), 3.046(2), 2.892(6)

Type material is deposited in the mineralogical collections of the South Australian Museum, North Terrace, Adelaide, South Australia, Australia, registration number G34762

How to cite: Elliott, P. (2019) Magnesiobermanite, IMA 2018-115. CNMNC Newsletter No. 47, February 2019, page 198; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-116

Perbœite-(La)

$(\text{CaLa}_3)(\text{Al}_3\text{Fe}^{2+})[\text{Si}_2\text{O}_7][\text{SiO}_4]_3\text{O}(\text{OH})_2$

Mochalin Log REE deposit, 14 km N of the city of Kyshtym, Chelyabinsk Oblast', South Urals, Russia ( $55^\circ 48' 42''\text{N}$ ,  $60^\circ 33' 46''\text{E}$ )

Anatoly V. Kasatkin\*, Igor V. Pekov, Natalia V. Zubkova, Nikita V. Chukanov, Radek Škoda, Yury S. Polekhovskiy, Dmitriy I. Belakovskiy, Atali A. Agakhanov, Aleksey M. Kuznetsov and Dmitry Y. Pushcharovskiy

\*E-mail: [anatoly.kasatkin@gmail.com](mailto:anatoly.kasatkin@gmail.com)

Gatelite supergroup

Monoclinic:  $P2_1/m$ ; structure determined

$a = 8.9652(4)$ ,  $b = 5.7306(2)$ ,  $c = 17.6770(9)$  Å,  
 $\beta = 116.053(6)^\circ$

15.85(83), 8.03(41), 4.665(68), 3.523(99), 3.116(56), 3.009(100), 2.874(55), 2.640(54)

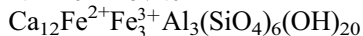
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 5253/1

How to cite: Kasatkin, A.V., Pekov, I.V., Zubkova, N.V., Chukanov, N.V., Škoda, R., Polekhovskiy, Y.S., Belakovskiy, D.I., Agakhanov, A.A., Kuznetsov,

A.M. and Pushcharovsky, D.Y. (2019) Perbøeite-(La), IMA 2018-116. CNMNC Newsletter No. 47, February 2019, page 198; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-043

##### Nikmelnikovite



Kovdor massif, Kola peninsula, Murmansk Region, Russia (67°35'21"N, 30°27'33"E)

Sergey V. Krivovichev\*, Victor N. Yakovenchuk, Taras L. Panikorsvskii, Eugeny E. Savchenko, Yakov A. Pakhomovsky, Julia A. Mikhailova, Ekaterina A. Selivanova, Galijabanu I. Kadyrova and Gregory Y. Ivanyuk

\*E-mail: [skrivovi@mail.ru](mailto:skrivovi@mail.ru)

##### Garnet supergroup

Trigonal:  $R\bar{3}$ ; structure determined

$a = 17.2072(6)$ ,  $c = 10.5689(4)$  Å

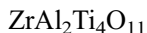
8.57(65), 3.042(58), 2.720(100), 2.483(27), 2.223(28), 1.975(30), 1.687(31), 1.626(32)

Type material is deposited in the collections of the Mineralogical Museum, St. Petersburg State University, Russia, catalogue No. 1/19691

How to cite: Krivovichev, S.V., Yakovenchuk, V.N., Panikorsvskii, T.L., Savchenko, E.E., Pakhomovsky, Y.A., Mikhailova, J.A., Selivanova, E.A., Kadyrova, G.I. and Ivanyuk, G.Y. (2019) Nikmelnikovite, IMA 2018-043. CNMNC Newsletter No. 47, February 2019, page 199; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-103

##### Carmeltazite



In pockets of trapped melt interstitial to, or included in, corundum crystals, Mt. Carmel volcanics, Israel William L. Griffin, Sarah E.M. Gain, Luca Bindi\*, Verez Toledo, Fernando Cámara, Martin Saunders and Suzanne Y. O'Reilly

\*E-mail: [luca.bindi@unifi.it](mailto:luca.bindi@unifi.it)

##### New structure type

Orthorhombic:  $Pnma$ ; structure determined

$a = 14.0951(9)$ ,  $b = 5.8123(4)$ ,  $c = 10.0848(7)$  Å

5.04(65), 4.09(60), 2.961(100), 2.885(40), 2.732(30), 2.051(25), 2.047(60), 1.456(30)

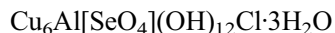
Type material is deposited in the mineralogical collections of the Museo di Storia Naturale, Università di Firenze, Via La Pira 4, I-50121, Firenze, Italy, catalogue number 3293/I

How to cite: Griffin, W.L., Gain, S.E.M., Bindi, L., Toledo, V., Cámara, F., Saunders, M. and O'Reilly, S.Y. (2019) Carmeltazite, IMA 2018-103. CNMNC Newsletter No. 47, February 2019, page 199; *European Journal of Mineralogy*, **31**, 197–202.

## NEW MINERAL PROPOSALS APPROVED IN JANUARY 2019

#### IMA No. 2018-111

##### Llantenite



Mina San Pedro, Cuesta de Los Llantenos mining district, NW Jagüé, Vinchina Department, La Rioja Province, Argentina (28°20'–40'S, 68°30'–45'W)

Christian L. Lengauer\*, Martin Ende, Dan Topa, Raúl Lira and Werner H. Paar

\*E-mail: [christian.lengauer@univie.ac.at](mailto:christian.lengauer@univie.ac.at)

The Se analogue of spangolite

Trigonal:  $P31c$ ; structure determined

$a = 8.2603(3)$ ,  $c = 14.5953(4)$  Å

7.297(100), 3.650(40), 3.254(5), 2.535(6), 2.363(4), 1.984(2), 1.824(3), 1.552(2)

Type material is deposited in the mineralogical collections of the Naturhistorisches Museum Wien, Burgring 7, 1010 Wien, Austria, catalogue No. O574

How to cite: Lengauer, C.L., Ende, M., Topa, D., Lira, R. and Paar, W.H. (2019) Llantenite, IMA 2018-111. CNMNC Newsletter No. 47, February 2019, page 199; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-113

##### Donwilhelmsite



In the lunar meteorite Oued Awlitis 001, found on January 15, 2014 in the Boujdour Province, Laâyoune-Sakia El Hamra Region, Western Sahara (25.954°N, 12.493°W)

Jörg Fritz\*, Ansgar Greshake, Mariana Klementova, Richard Wirth, Lukas Palatinus, Vera Assis Fernandes, Ute Böttger and Ludovic Ferrière

\*E-mail: [joerg.fritz@kino-heppenheim.de](mailto:joerg.fritz@kino-heppenheim.de)

Structurally related to zagamiite

Hexagonal:  $P6_3/mmc$ ; structure determined

$a = 5.44(1)$ ,  $c = 12.76(3)$  Å

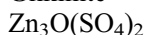
X-ray powder diffraction pattern not available

Type material is deposited in the mineralogical collections of the Naturhistorisches Museum Wien, Burgring 7, 1010 Wien, Austria, catalogue no. NHMW-O104

How to cite: Fritz, J., Greshake, A., Klementova, M., Wirth, R., Palatinus, L., Assis Fernandes, V., Böttger, U. and Ferrière, L. (2019) Donwilhelmsite, IMA 2018-113. CNMNC Newsletter No. 47, February 2019, page 199; *European Journal of Mineralogy*, **31**, 197–202.

## IMA No. 2018-119

Glikinite



Arsenatnaya fumarole, Second scoria cone of the Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka peninsula, Far-Eastern Region, Russia (55°41'N, 160°14'E, 1200 m asl)

Evgeniy V. Nazarchuk, Oleg I. Siidra\*, Diana O. Nekrasova, Artem S. Borisov and Vladimir V. Shilovskikh

\*E-mail: [o.siidra@spbu.ru](mailto:o.siidra@spbu.ru)

Known synthetic analogue

Monoclinic:  $P2_1/m$ ; structure determined

$a = 7.30(2)$ ,  $b = 6.59(1)$ ,  $c = 7.84(1)$  Å,  
 $\beta = 117.14(3)^\circ$

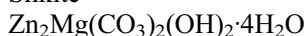
6.968(56), 3.942(52), 3.483(100), 3.294(49),  
2.936(43), 2.533(63), 2.507(63), 2.394(86)

Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, specimen number 1/19695

How to cite: Nazarchuk, E.V., Siidra, O.I., Nekrasova, D.O., Borisov, A.S. and Shilovskikh, V.V. (2019) Glikinite, IMA 2018-119. CNMNC Newsletter No. 47, February 2019, page 200; *European Journal of Mineralogy*, **31**, 197–202.

## IMA No. 2018-120

Šlikite



Vladimír mine (II. level), Plavno, Jáchymov ore district, Western Bohemia, Czech Republic

Jiří Sejkora\*, Ian E. Grey, Anthony R. Kampf, W. Gus Mumme, Bohuslav Bureš and Jiří Čejka

\*E-mail: [jiri\\_sejkora@nm.cz](mailto:jiri_sejkora@nm.cz)

New structure type

Triclinic:  $P\bar{1}$ ; structure determined

$a = 6.335(4)$ ,  $b = 6.340(1)$ ,  $c = 13.923(4)$  Å,  
 $\alpha = 99.985(7)$ ,  $\beta = 92.74(1)$ ,  $\gamma = 114.93(2)^\circ$   
13.57(100), 4.525(31), 3.573(2), 3.406(5), 3.394(5),  
3.326(1), 2.996(3), 2.773(3)

Type material is deposited in the mineralogical collection of the National Museum, Prague, Czech Republic, catalogue number P1P 46/2018, and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 67057

How to cite: Sejkora, J., Grey, I.E., Kampf, A.R., Mumme, W.G., Bureš, B. and Čejka, J. (2019) Šlikite, IMA 2018-120. CNMNC Newsletter No. 47, February 2019, page 200; *European Journal of Mineralogy*, **31**, 197–202.

## IMA No. 2018-124

Orthocuproplatinum



Lubero region, Democratic Republic of the Congo

Alexandre Raphael Cabral\*, Roman Skála, Anna Vymazalová, Jaroslav Maixner, Chris J. Stanley, Bernd Lehmann and Jacques Jedwab

\*E-mail: [arcab@ufmg.br](mailto:arcab@ufmg.br)

Known synthetic analogue

Orthorhombic:  $Cmmm$ ; structure determined

$a = 7.681(1)$ ,  $b = 5.4318(8)$ ,  $c = 2.7502(4)$  Å  
2.337(11), 2.236(100), 2.217(97), 1.932(61),  
1.920(30), 1.362(36), 1.169(24), 1.161(23)

Type material is deposited in the mineralogical collection of “Geosammlung”, Technische Universität Clausthal, Adolph-Roemer-Strasse 2A, D-38678 Clausthal-Zellerfeld, Germany, catalogue number 11331

How to cite: Cabral, A.R., Skála, R., Vymazalová, A., Maixner, J., Stanley, C.J., Lehmann, B. and Jedwab, J. (2019) Orthocuproplatinum, IMA 2018-124. CNMNC Newsletter No. 47, February 2019, page 200; *European Journal of Mineralogy*, **31**, 197–202.

## IMA No. 2018-126

Nickolayite



Daba-Siwaqa complex, Transjordan Plateau, Hatrurim Formation, Jordan (31°21'52"N, 36°10'55"E)

Mikhail N. Murashko, Yevgeny Vapnik, Yury S. Polekhovsky, Vladimir V. Shilovskikh, Anatoly N. Zaitsev, Oleg S. Vereshchagin and Sergey N. Britvin\*

\*E-mail: [sbritvin@gmail.com](mailto:sbritvin@gmail.com)

New structure type

Orthorhombic:  $Pnma$ ; structure determined

$a = 5.9519(5)$ ,  $b = 3.7070(3)$ ,  $c = 6.8465(6)$  Å  
3.238(21), 2.298(100), 2.226(9), 2.181(89),  
2.113(26), 1.927(14), 1.838(18), 1.388(13)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Leninskiy Prospekt 18-2, Moscow 119071, Russia, registration number 5290/1

How to cite: Murashko, M.N., Vapnik, Y., Polekhovsky, Y.P., Shilovskikh, V.V., Zaitsev, A.M., Vereshchagin, O.S. and Britvin, S.N. (2019) Nickolayite, IMA 2018-126. CNMNC Newsletter No. 47, February 2019, page 200; *European Journal of Mineralogy*, **31**, 197–202.

## IMA No. 2018-128

Reaphookhillite



Reaphook Hill, Martins Well, Flinders Ranges, South Australia, Australia (31°23'39"S, 139°17'54"E)

Peter Elliott\*

\*E-mail: [peter.elliott@adelaide.edu.au](mailto:peter.elliott@adelaide.edu.au)

The Mg analogue of parahopeite

Triclinic:  $P\bar{1}$ ; structure determined



$a = 5.759(1)$ ,  $b = 7.534(1)$ ,  $c = 5.279(1)$  Å,  
 $\alpha = 93.44(3)$ ,  $\beta = 91.27(3)$ ,  $\gamma = 91.30(3)^\circ$   
 7.577(100), 4.461(24), 3.771(14), 3.158(13),  
 2.982(32), 2.880(27), 2.775(14), 2.668(13)

Type material is deposited in the mineralogical collection of the South Australian Museum, North Terrace, Adelaide, South Australia, Australia, registration number G34798

How to cite: Elliott, P. (2019) Reaphookhillite, IMA 2018-128. CNMNC Newsletter No. 47, February 2019, page 200; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-129

Davidbrowne-(NH<sub>4</sub>)  
 (NH<sub>4</sub>)<sub>5</sub>(V<sup>4+</sup>O)<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)<sub>4</sub>[PO<sub>2.75</sub>(OH)<sub>1.25</sub>]<sub>4</sub>·3H<sub>2</sub>O  
 Rowley mine (125-foot level), ca. 20 km NW of  
 Theba, Maricopa Co., Arizona, USA (33°2'57"N,  
 113°1'59"W)

Anthony R. Kampf\*, Mark A. Cooper, George R. Rossman, Barbara P. Nash, Frank C. Hawthorne and Joe Marty

\*E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

New structure type

Monoclinic:  $P2_1/c$ ; structure determined

$a = 10.356(6)$ ,  $b = 8.923(5)$ ,  $c = 13.486(7)$  Å,  
 $\beta = 92.618(9)^\circ$   
 10.39(100), 6.73(50), 5.97(34), 3.789(35),  
 3.160(47), 3.104(42), 3.043(35), 2.977(44)

Cotype material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 66951, 66955 and 66959

How to cite: Kampf, A.R., Cooper, M.A., Rossman, G.R., Nash, B.P., Hawthorne, F.C. and Marty, J. (2019) Davidbrowne, IMA 2018-129. CNMNC Newsletter No. 47, February 2019, page 201; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-006a

Ognitite

NiBiTe

Ognit (or Medek) dunite-wehrilite complex, southern margin of the Siberian Craton, Irkutskaya oblast, Eastern Sayans, Russia

Andrei Y. Barkov\*, Luca Bindi, Björn Winkler, Wolfgang Morgenroth, Gennadiy I. Shvedov, Robert F. Martin, Federica Zaccarini, Camelia V. Stan, Nobumichi Tamura and Christopher J. Stanley

\*E-mail: [ore-minerals@mail.ru](mailto:ore-minerals@mail.ru)

Structurally related to melonite

Trigonal:  $P3m1$ ; structure determined

$a = 3.9332(4)$ ,  $c = 5.3920(6)$  Å  
 5.39(10), 3.39(15), 2.880(100), 2.697(10),  
 2.110(30), 1.968(30), 1.625(15), 1.589(20)

Type material is deposited in the mineralogical collections of the Museo di Storia Naturale, Sezione di Mineralogia e Litologia, Università di Firenze, Via La Pira 4, I-50121, Firenze, Italy, catalogue number 3292/I

How to cite: Barkov, A.Y., Bindi, L., Winkler, B., Morgenroth, W., Shvedov, G.I., Martin, R.F., Zaccarini, F., Stan, C.V., Tamura, N. and Stanley, C.J. (2019) Ognitite, IMA 2018-006a. CNMNC Newsletter No. 47, February 2019, page 201; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-051a

CaZn<sub>2</sub>(AsO<sub>4</sub>)<sub>2</sub>·4H<sub>2</sub>O

Plaka Mine No. 80, Lavrion District Mines, Attiki Prefecture, Greece (37°45'18"N, 24°1'54"E)

Branko Rieck\*, Gerald Giester, Christian Lengauer and Dan Topa

\*E-mail: [rieckb49@univie.ac.at](mailto:rieckb49@univie.ac.at)

Structurally related to phosphophyllite

Monoclinic:  $Pc$ ; structure determined

$a = 9.4160(3)$ ,  $b = 5.3000(2)$ ,  $c = 10.8931(4)$  Å,  
 $\beta = 91.767(1)^\circ$

9.406(100), 4.619(80), 3.612(35), 3.494(35),  
 2.984(60), 2.922(50), 2.720(20), 2.647(25)

Type material is deposited in the mineralogical collections of the Natural History Museum-Vienna, Burgring 7, 1010 Vienna, Austria, inventory number O342

How to cite: Rieck, B., Giester, G., Lengauer, C. and Topa, D. (2019) IMA 2018-051a. CNMNC Newsletter No. 47, February 2019, page 201; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. 2018-055a

Bouškaite

(MoO<sub>2</sub>)<sub>2</sub>O(SO<sub>3</sub>OH)<sub>2</sub>(H<sub>2</sub>O)<sub>4</sub>

On the mine dump of the shaft Lill (total depth 454.4 m), close to Příbram, central Bohemia, Czech Republic (49°41'49"N, 14°0'1"E)

Jiri Sejkora\*, Ian E. Grey, Anthony R. Kampf, Jakub Plášil and Pavel Škácha

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New structure type

Triclinic:  $P\bar{1}$ ; structure determined

$a = 5.581(3)$ ,  $b = 9.572(1)$ ,  $c = 14.425(4)$  Å,  
 $\alpha = 97.43(1)$ ,  $\beta = 100.05(2)$ ,  $\gamma = 89.96(1)^\circ$   
 14.15(35), 7.078(100), 5.483(6), 5.440(9), 4.838(7),  
 4.720(56), 4.010(7), 3.240(10)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum Prague, Cirkusová 1740, CZ-193 00 Praha 9, Czech Republic, catalogue number PIP 24/2018 (holotype), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard,

Los Angeles, CA 90007, USA, catalogue number 66776 (cotype)

How to cite: Sejkora, J., Grey, I.E., Kampf, A.R., Plášil, J. and Škácha, P. (2019) Bouškaite, IMA 2018-055a. CNMNC Newsletter No. 47, February 2019, page 201; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. **2018-063a**

Kenngottite

$\text{Mn}_3^{2+}\text{Fe}_4^{3+}(\text{PO}_4)_4(\text{OH})_6(\text{H}_2\text{O})_2$

Stannum mine, 5th level of the Huber shaft, Krásno ore district, near Horní Slavkov, western Bohemia, Czech Republic (50°07'22"N, 12°48'2"E)

Jiří Sejkora\*, Ian E. Grey and Anthony R. Kampf

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Structurally related to souzalite and gormanite

Monoclinic:  $P2_1/a$ ; structure determined

$a = 13.909(10)$ ,  $b = 5.186(4)$ ,  $c = 12.159(9)$  Å,  
 $\beta = 98.88(1)^\circ$   
4.87(47), 3.458(89), 3.209(100), 3.023(31),  
2.623(46), 2.429(49), 1.951(28), 1.577(34)

Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum Prague, Cirkusová 1740, CZ-193 00 Praha 9, Czech Republic, catalogue number P1P 26/2018 (holotype), and the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 66795 (cotype)

How to cite: Sejkora, J., Grey, J.E. and Kampf, A.R. (2019) Kenngottite, IMA 2018-063a. CNMNC Newsletter No. 47, February 2019, page 202; *European Journal of Mineralogy*, **31**, 197–202.

#### IMA No. **2018-086a**

Edscottite

$\text{Fe}_5\text{C}_2$

Wedderburn meteorite, found 4.5 km NE of Wedderburn, Victoria, Australia (36°26'S, 143°38'E)

Chi Ma and Alan Rubin

\*E-mail: [chi@gps.caltech.edu](mailto:chi@gps.caltech.edu)

Known synthetic analogue

Monoclinic:  $C2/c$

$a = 11.57$ ,  $b = 4.57$ ,  $c = 5.06$  Å,  $\beta = 97.7^\circ$

2.207(31), 2.192(26), 2.079(68), 2.050(100),  
2.027(27), 2.010(36), 1.921(26), 1.816(22)

Type material is deposited in the meteorite collections of the Department of Earth, Planetary and Space Sciences, University of California, Los Angeles, CA 90095-1567, USA, polished thick section ULCA 143

How to cite: Ma, C. and Rubin, A. (2019) Edscottite, IMA 2018-086a. CNMNC Newsletter No. 47, February 2019, page 202; *European Journal of Mineralogy*, **31**, 197–202.

### REVISED CHEMICAL FORMULAE

A paper on the mineral satimolite has been recently published [*Mineralogical Magazine*, **82** (2018), 1033–1047] in which the ideal chemical formula of the mineral is given as  $\text{KNa}_2(\text{Al}_5\text{Mg}_2)[\text{B}_{12}\text{O}_{18}(\text{OH})_{12}](\text{OH})_6\text{Cl}_4 \cdot 4\text{H}_2\text{O}$ , with magnesium as an essential constituent. These data were examined carefully by the CNMNC officers and were considered reliable. Accordingly it was agreed to modify the formula of satimolite in the official IMA List of Minerals.